

In the Claims

1. (Currently Amended) Iron powder adapted to remediate selected media by dehalogenating halogenated hydrocarbons in the media comprising:

iron powder particles; and

an inorganic compound having an electric resistivity of about $1 \times 10^{-11} \Omega\text{-m}$ or less on at least a portion of the surfaces of the iron powder particles;

wherein about 1% to about 99% by area of the surface of the iron powder is covered with the inorganic compound.

2. (Original) The iron powder according to Claim 1, wherein the inorganic compound comprises at least one metal element selected from the group consisting of Ca, Ti, V, and Cr.

3. (Original) The iron powder according to Claim 1, wherein the inorganic compound comprises at least one compound selected from the group consisting of nitrides, oxides, sulfides, and carbides.

4. (Currently Amended) The iron powder according to Claim 1, wherein the inorganic compound is selected from the group consisting of CaCrO_4 , TiO , Ti_2O_3 , Ti_2O_5 , TiN , TiS , TiC , VO , V_2O_5 and CrO_2 .

Claims 5-10 (Cancelled)

11. (New) The iron powder according to Claim 1, wherein the iron powder particles contain Si: 0.005% to 0.30% by mass.

12. (New) The iron powder according to Claim 11, wherein the inorganic compound comprises at least one compound selected from the group consisting of nitrides, oxides, sulfides, and carbides.

13. (New) The iron powder according to Claim 12, wherein about 10% to about 50% by area of the surface of the iron powder is covered with the inorganic compound.

14. (New) The iron powder according to Claim 13, wherein the reducing action of the iron powder is increased by the inorganic compound.

15. (New) The iron powder according to Claim 14, wherein the inorganic compound is selected from the group consisting of CaCrO_4 , TiO , Ti_2O_3 , Ti_2O_5 , TiN , TiS , TiC , VO , V_2O_3 and CrO_2 .

16. (New) The iron powder according to Claim 1, wherein about 10% to about 50% by area of the surface of the iron powder is covered with the inorganic compound.

17. (New) The iron powder according to Claim 1, wherein the iron particle and the inorganic compound are conductively connected.

18. (New) The iron powder according to Claim 1, wherein the reducing action of the iron powder is increased by the inorganic compound.